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COMPLETION DATA:			\$.5 .5
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GW OS PA.	V	State or Fee Land	••••••
Driller's Log Electric Logs (No.)	LOGS F	TLED.	
E I	Dual I Lat	GR-N Micro	_
DOUGH GROOMS	Lat	Mi-L Sonic	

Plugged & abandoned - 9/25/78



1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303—573-5665



February 16, 1978

Mr. Cleon Feight Director Division of Oil, Gas & Mining 1588 West, North Temple Salt Lake City, Utah 84116

Re: Applications to Drill:
Bar Creek Unit #4, NE NW
Sec. 30, T.17S, R.26E,
Grand County, Utah

Bar Creek Unit #5, NE NE Sec. 30, T.17S, R.26E, Grand County, Utah

Dear Mr. Feight:

We wish to submit the enclosed application to drill the above referenced locations: These are both federal leases.

If you have any questions, please call.

Thank you.

Sincerely,

W. Lee Kuhre

Operations Coordinator

WLK/mle Enclosure Prani Interior

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL & GAS

SUBTREE : in transfer

THIS IS A FEDERAL LEASE

5. Leave Designation and Serial No.

ADDITION	COD DEDINE T	O DOUL DEEDE		6. If I	ndian, Allottee or Tribe Name
AFFLICATION	FOR PERMIT I	O DRILL, DEEPE	N, OR PLUG B	ACK	
a. Type of Work DRILL b. Type of Well	X ·	DEEPEN [PLUG BAC	K 🗍 7. Uni	t Agreement Name
Oil Gas Well	Other		Single Multip	ole S. Fari	m or Lease Name
Name of Operator				Ва	r Creek Unit
THE ANSCHUTZ	Z_CORPORATION_		2211	11/2/>5	No.
1110 Denver Location of Well (Report	Club Building beation clearly and in	, Denver, Color accordance with any State	ado 80202	WHIT PO	Stateline Field Creek (area)
660' FNI	L, 660 FEL	NE NE Sec. 30	FERS	21 1978 BAT	T., R., M., or Blk.
At proposed prod. zone	na		0 0	WINDS E	T. 17S-R. 26E
			1-1-	, Mil. 1	
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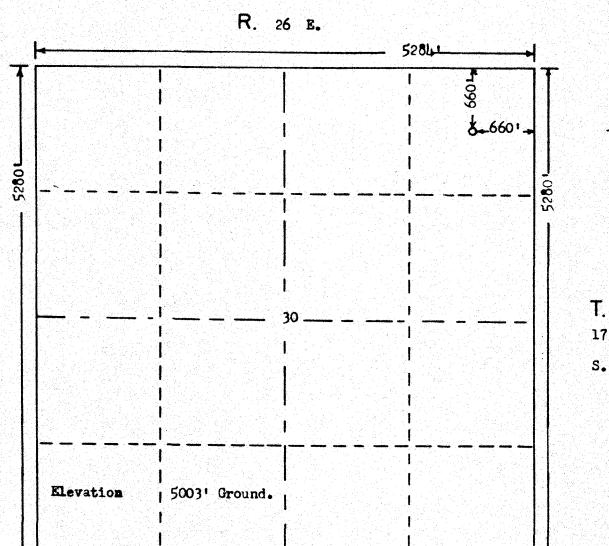
- 1. BOP test recorded daily
- 2. Logs at total depth

Test the dakota, Morrison, Salt Wash, formations. A blowout preventer will be installed on the casing head, and a rotating head will be installed on top of the blowout preventer for air drilling. Any gas zones encountered will be flared at the end of the blooie line and checked for volume thru 2" lines off the casing head after the pipe rams have been closed. The blooie line 100' in length will be attached to the rotating head and extended into the reserve pit. A flare will be maintained at the end of the blooie line at all times while drilling below 1000'. In the event of commercial production, 4½" casing will be set with sufficient cement to cover 250' above the top of the Dakota formation.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

W. Du Yuhu Signed W. Lee Kuhre	Title Operations Coordina	Date 2-6-78
(This space for Federal or State office use) Permit No. 43-019-30425	APPI	ROVED BY THE DIVISION OF
Cause # 165-1	Title DAT	GAS, AND MINING - 2-21-11
Conditions of approval, if any:	BY:	C.6, Soult





Scale ... I" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
has in accordance with a request from Lee Kuhre
for Anschutz Corporation
determined the location of #5 Bar Creek Unit
to be 660'FN & 660'FE Section 30 Township 17 S.
Range 26 E. of the Salt Lake Principal Meridian
Grand County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of #5 Bar Creek Unit

Licensed Land Surveyor No. 2711 State of Utah

5281 .

** FILE NOTATIONS **
Date: Feb. 24, 1978
Operator: Anschotz Corp
Well No: Bar Creek #5
Location: Sec. 30 T. 175 R. 26 E County: Irand
File Prepared: // Entered on N.I.D.: // Card Indexed: // Completion Sheet: //
API NUMBER: 43-019-30425
CHECKED BY:
Administrative Assistant
Remarks: Petroleum Engineer
Remarks:
Director
Remarks:
INCLUDE WITHIN APPROVAL LETTER:
Bond Required: Survey Plat Required: //
Order No. 165-1 / Surface Casing Change / / to
Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site //
O.K. Rule C-3 / O.K. In Bar Creek Unit / VI
Other:

June 28, 1978

MEMO TO FILE

Re: Anschutz Corporation
Well No. Bar Creek Unit #5
Sec. 30, T. 17S., R. 26E.
Grand County, Utah

This well had not been spudded-in at the time of the visit.

1

CLEON B. FEIGHT DIRECTOR DIVISION OF OIL, GAS, & MINING

CBF/ksw



1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303--573-5665 TWX 910 931 2620

July 18, 1978

State of Utah
Dept. of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Kathy Ostler, Records Clerk

Dear Ms. Ostler:

As requested in your letter of June 8, 1978 the following is submitted.

To update your records the following wells have not yet been drilled and our plans have not changed.

Well No. Federal 258-#4, Sec. 5, T. 18S, R. 24E, Grand County, Utah

Well No. Federal 335-#2, Sec. 20, T. 19S, R. 23E, Grand County, Utah

Well No. Federal 335-#4, Sec. 19, T. 19S, R. 23E, Grand County, Utah

Well No. Federal 350-#1, Sec. 4, T. 18S, R. 24E, Grand County, Utah

Well No. State 400-#1, Sec. 17, T. 16S, R. 23E, Grand County, Utah

Well No. State 402-#1, Sec. 36, T. 175, R. 20E, Grand County, Utah

Well No. State 404-#1, Sec. 23, T. 178, R. 21E, Grand County, Utah

Well No. State 411-#2, Sec. 23, T. 18S, R. 20E, Grand County, Utah

Well No. State 414-#1, Sec. 32, T. 185, R. 21E, Grand County, Utah

-Over-

State of Utah
Dept. of Natural Resources
Kathy Ostler, Records Clerk
July 18, 1978
Page - 2

Well No. State 915-#1, Sec. 17, T. 16S, R. 22E, Grand County, Utah

Well No. State 920-#1, Sec. 28, T. 16S, R. 21E, Grand County, Utah

Well No. Ten Mile State 921-#1, Sec. 34, T. 16S, R. 21E, Grand County, Utah

Well No. Bar Creek Unit #4, Sec. 30, T. 17S, R. 26E, Grand County, Utah

Well No. Bar Creek Unit #5, Sec. 30, T. 17S, R. 26E, Grand County, Utah

We do not presently plan to drill the Well No. State 492-#1, Sec. 2, T. 19S, R. 21E, Grand County, Utah.

We have recently drilled and either completed or abandoned the following wells. Reports are forthcoming under a separate cover.

Well No. Federal 258-#2, Sec. 5, T. 18S, R. 24E, Grand County, Utah

Well No. Federal 258-#3, Sec. 5, T. 18S, R. 24E, Grand County, Utah

Well No. Anschutz State Line 28-1, Sec. 28, T. 4N, R. 8E, Summit County, Utah

Well No. Federal 258-#5, Sec. 8, T. 18S, R. 24E, Grand County, Utah

Well No. 769-#1, Sec. 19, T. 19S, R. 21E, Grand County, Utah

Well No. Federal 104-#1, Sec. 4, T. 20S, R. 21E, Grand County, Utah

Well No. Federal 675-#2, Sec. 9, T. 20S, R. 21E, Grand County, Utah

(Other instructions on reverse side) DEPARTMENT OF THE IN

SUBMIT IN TRIPLICA

Form approved. Budget Bureau No. 42-R1425.

		CICH THE HATE	RIUR		5. LEASE DESIGNATION AND SERIAL NO.
A DDL ICA TION		GICAL SURVEY			U-16925
APPLICATION	Y FOR PERMIT	O DRILL, DEEPI	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
DRI DE OF WELL	AS STREET OTHER	DEEPEN [PLUG BAC	ж 🗆	7. UNIT AGREEMENT NAME Bar Creek Unit 8. PARM OR LEASE NAME
The Anschutz 3. Address of Operator	Corporation				Bar Creek Unit 9. WBLL NO.
	Club Building, eport location clearly and	Denver, Colorad in accordance with any 8	lo 80202	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5 10. FIELD AND POOL, OR WILDCAT
660 F	NL, 660 FEL N	E NE Sec. 30	AUR LEIVE	72	Bar Creek (area) 11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA
14. DISTANCE IN MILES	Same AND DIRECTION FROM NEAR	EST TOWN OR POST OFFICE	13 8 V Cx 97	b ω	30-T.17S-R.26E
	rom Thompson, U	tah (Exhibit "E	1 AC)\ 'VV/. '/	M	12. COUNTY OR PARISH 13. STATE Grand Utah
PROPERTY OR LEASE ! (Also to nearest drig	TNP PP (b)		TOTTE		IS WELL
18. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION*	19. PR	640 91	20. ROTAR	160A T OR CABLE TOOLS
OR APPLIED FOR, ON TH	IS LEASE, FT.	3000' 2	260'	Rota	irv
21. ELEVATIONS (Show who				,	22. APPROX. DATE WORK WILL START*
5003'	ungraded ground				
	P	ROPOSED CASING AND	CEMENTING PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	· · · · · · · · · · · · · · · · · · ·	QUANTITY OF CEMENT
12½"	8-5/8"	24#	2001	180	sx (To surface)
6-3/4"	4-1/2"	9.5#	2420'	200	
"B" The Ten-1 "C" The Blow- "D" The Mult: "E" Access ro It is planned wells will be checked for well be checked for wells will be checked for well be checked for wells will be checked for well be checked for wellow for well be checked for well be checked for well be checked	and Elevation Point Compliance out Preventer I i-point Requirement and map of well to test the same air drilled, roolume through blooie line of erve pit. A flatilling below above the top	e Program Diagram Diagram ment for A.P.D. in area ands in the Dake mudding up if no "lines off at least 100' are will be main 1000'. In the of of the Dakota in	Cut "G" Dri "H" Pro ota, Morrison a ecessary. Gas the casing head in length will ntained at the event of commerce formation.	-Fill S 11 Rig duction nd Salt zones e d after extend end of cial pr	
signed W.Lee		N TITLE	Operations Coord	dinator	DATE 2-20-78
(This space for Feder	ral or State office use)			- LIMCOI	2-20-10
APPROVED BY	() Sgd.) E. W. (iuyaa mue Dis	STRICT ENGINEER		DATE AUG 2 9 1978

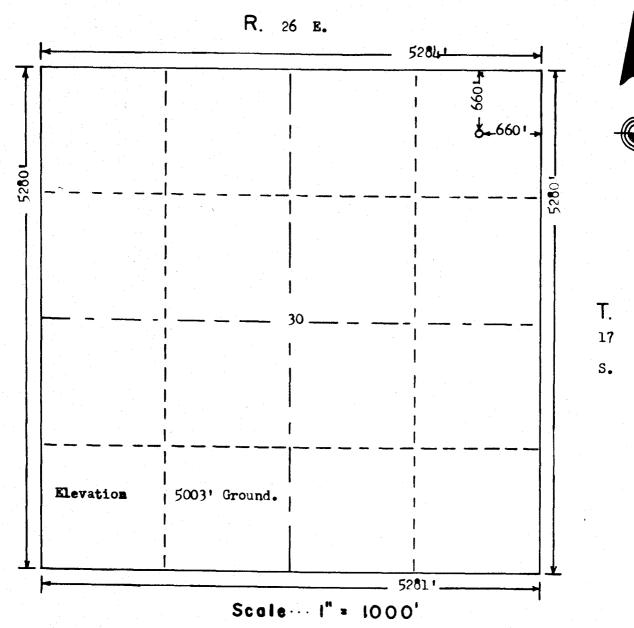
CONDITIONS OF ALL POVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJECT TO ROYALTY (NTL-4)

NOTICE OF APPROVAL





Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from Lee Kuhre for Anschutz Corporation determined the location of #5 Bar Creek Unit to be 660'FE Section 30 Township 17 S. Range 26 E. of the Salt Lake Principal Meridian Grand County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of #5 Bar Creek Unit

2711

Date:	····		Tuch	, ·	
		Licensed State of			No.

T- A				
ĻΕΑ	No.	950		

United States Department of the Interior Geological Survey 8440 Federal Building Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. <u>0-16925</u>	
Operator Anschutz Corporation	Well No. 5
Location 660' FNL & 660' FEL NENI	Sec. <u>30</u> T. <u>17S</u> R. <u>26E</u>
County Grand State Uta	ah Field Bar Creek
Status: Surface OwnershipPubl	ic Minerals <u>Federal</u>
Joint Field Inspection DateMa	rch 30, 1978
Participants and Organizations:	
John Evans	U.S.G.S.
Rocky Curvutt	BLM
Lee Kuhre	Anschutz Corp.
Richard Roth	Mike's Water & Dozer Service
Neal Swisher	C & W Contracting Co.
Related Environmental Analyses and I	References:
(1)	
(2)	
Analysis Prepared by:	John T. Evans Environmental Scientist Salt Lake City, Utah
Date May 19, 1978 5/19/7 FV	$n_{N_{\mathcal{S}}}$.

Proposed Action:

On February 24, 1978, Anschutz Corporation filed an Application for Permit to Drill the No. 5 exploratory well, a 2,260' gas test of the Dakota, Morrison, and Saltwash formations; located at an elevation of 5,003' in the NEWNEW section 30, T. 17S., R. 26E on Federal mineral lands and public surface; lease No. U-16925. There was no objection raised to the wellsite. As an objection was raised to the access road, it was changed. Access road will come in on the lower edge of location to have less cut and fill as road crosses wash. A concrete apron may be necessary in wash if production is established.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh water sands and other mineral-bearing formations would be protected. A Blowout Preventer would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The drilling operation would begin within 30 days upon approval of the A.P.D. and would be expected to last 20 days to reach total depth and complete the well for production if hydrocarbons are discovered.

A working agreement has been reached with the Bureau of Land Management the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements. Written concurrence of the surface managing agency is attached.

Location and Natural Setting:

The proposed drillsite is approximately 12 miles North of Harley Dome, Utah. A fair road runs to within 1,000' of the location. This well is in the Bar Creek field.

The overall topography consists of gently sloping hills cut be non-perennial drainages. The location is on sandy hills. The surface geology is Mancos. The soil is sandy. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan. No mining of any sort is anticipated in the area. The land is used primarily for grazing. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis. Annual precipitation is 6 - 10 inches. Winds are medium and gusty, occurring predominately from West to East. Air mass inversions are rare.

The area eventually drains into the Bitter Creek subsystem of Colorado River. The depths of fresh-water formations are listed in the 10-Point Subsurface Protection Plan.

Vegetation consists of sagebrush and native grasses. Mammalian wildlife in the area include deer, coyote, skunk, rabbit, prairie dog, small gophers, and mice. There are numerous prairie and mountain birds in the general area, including aquatic birds and birds of prey. Snakes and small lizards are also present on a seasonal basis. The Bureau of Land Management has made a plant and animal inventory. There are no known endangered or threatened plant or animal species in the area.

There are no known historical, cultural or archaeological sites in the area. A cultural resource clearance would be obtained from the Bureau of Land Management. There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails, or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area.

The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Effects on the Environment by the Proposed Action:

The wellpad would disturb approximately 2 acres. The access road would disturb approximately .5 acre. An estimated 2' cut and 6' fill would be necessary to level the pad area. The vegetation would be removed and minor relocation of wildlife in the immediate area, particularly small rodents, would be anticipated. Production facilities would be placed on disturbed area of drillpad. Construction of Flowlines would disturb long, narrow strips of the surface for a short period of time.

The mud and reserve pits would contain all fluids used during the drilling operations. The potential for fluid spills, gas leaks, and related accidents would be present. If the well should be productive, precautions would be taken against such accidents. Toxic or noxious gases would not be anticipated.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. There would be no tangible effect on water migration in fresh water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.under NTE 28.

Waterways would not be affected directly due to their distance from the site. If oil production is established a berm around drillpad would prevent contamination to a non-perennial wash.

Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

Relatively heavy traffic would be anticipated during the drilling operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

The animals and vegetation of the area would be disturbed for the life of the project. If the project was to produce hydrocarbons, adjustments in habitat occupancy would be expected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area, but would not present a major intrusion.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to U.S.G.S.'s satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment. The anticipated traffic would have a minimal impact on ranch traffic and vehicular safety problems. Normal precautions would be employed to prevent damage or injury to ranch property and personnel. Aside from recreational activities such as hunting, the only other human conflicts that would arise in normal useage of the area would be the oil and gas operations.

These would be minor, with planned precautions to limit such conflict.

The economic and environmental impact of a single well is normally somewhat negligible. But should this well discover a significant new hydrocarbon source, local, state, and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Alternatives to the Proposed Action:

- 1. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and Bureau of Land Management supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.
- 2. Minor relocation of the wellsite or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. The access road was moved to cross wash at a point requiring less cuts and fills.

Adverse Environmental Effects which cannot be Avoided:

Surface scars resulting from construction work, wellpad and the access road would be visible for the life of the project and for a period of time after abandonment while rehabilitation is completed. The disturbed areas would not be available for grazing and farming purposes during the project's life time.

Minor relocation of wildlife, notably small rodents, in the immediate area would be anticipated. Some erosion would be anticipated with the removal of vegetative cover. Dust levels and exhasut pollutants would increase somewhat during the construction and drilling phases of the operation. Traffic hazards though few, would be present. Noise levels would increase during construction and drilling and would remain somewhat increased if the well was completed and a pumping unit installed. The potential for fluid spills, gas leaks, and related accidents would be present. If hydrocarbons are discovered and produced, further oil and gas development of the area would be expected to occur which would result in the extraction of an irreplaceable resource, and further negative environmental impacts.

Determination:

This requested action does not constitute a major Federal Action significantly affecting the environment in the sense of NEPA, Section 102 (2)(c).

District Engineer: Salt Lake City, Utah Ew. Goyan

(Submitted TurispicECAL SURVEY RECEIVED

DESIGNATION OF AGENT

SEP 26 1978

Supervisor, Oil and Gas Operations:

12 V 10

CASPER, WYOMING

The undersigned is, on the records of the Geological Survey, Unit Operator under the Bar Creek unit agreement, Grand County, Utah (state), No. 14-08-001-16018 approved December 21, 1977 and hereby designated:

NAME: Willard Pease Oil & Gas Company

ADDRESS: 570 Kennecott Building Salt Lake City, Utah 84133

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing, and completing unit well No. 5, in the NE\(\frac{1}{2}\)NE\(\frac{1}{2}\) Sec. 30, T. 17S, R. 26E, SLM, Grand County, Utah

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U.S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative actions requiring specific author-ization of agent is limited to field operations.

ACCEPTED 10070 10070 the Unit Operator.

Acting Area Oil & Gas Supervisor, Geological Survey
Casper, Wyoming

THE ANSCHUTZ CORPORATION

Unit Operator

By: Mice and Miles A. Williams Vice President

8-18-78

rator:	The Anschut	z Corp Well	: 5	Cran		o., Uta	ıh	
se No.		660 FNL 6	60 feiine*	NE*)sec.	30 T	. <u>17 S.</u>	, R.	26 E. 3
	U-16295							
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Possi	hle fresh	water aquif	ars nresen	t below su	rface cas	ing? Yes	, No	o x . 1
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District Geologist, Salt Lake City, Utah

ED STATES SUBMIT IN DUPL DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

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WELL CO	MPLET	ION C	OR RECOM	APLETIC	I NC	REPORT	AND L	OG*	7	
1a. TYPE OF WE	LL:	OIL	GAS WELL	DR.	X	Other			7. UNIT ACREE	MENT NAMB
L TYPE OF COM	IPLETION:			7 7,700	ينسم				Bar C	reek
WELL L	OVER L	DEEP-	PLUG BACK	DIFF. RESVE	8. <u> </u>	Other Dry	Hole		.1	
2. NAME OF OPERA Willard		041.5	Can Ca						Feder	al-Anschutz
3. ADDRESS OF OPI		OTT 6	r Gas GU	•					Rar (Tk Unit #5
570 Kenn	ecott	Blde.	Salt	Lake	City	. Utah	8413	3	10. PIELD AND	Ik Unit #5 POOL, OR WILDCAT
570 Kenn 4. LOCATION OF WI	ELL (Report	location c	learly and in ac	cordance 1	with an	y State requ	irements)*		State	line
At surface N	E. NE	. Sec.	. 30, T	17S,	R 26	E, S.I	.M.		11. SEC., T., R., OR AREA	, M., OR BLOCK AND SURVE
At top prod. in	terval repo	rted below	660' fr	. N-1	ine	and 66	0' fr.	E-line	NE. N	NE. Sec. 30,
At total depth									17S-2	6E S.L.M.
				14. PER	MIT NO.		DATE ISSUED		12. COUNTY OR	13. STATE
								and Jane	Grand	<u> Utah</u>
15. DATE SPUDDED			HED 17. DATE		Ready to	17.7	100		a., u.,	19. ELEV. CASINGHEAD
Sept 22,78	Sept	25, ' 7	$\frac{8}{N}$	one	7P 35515	TIPLE COMPL		rd; 50	13 K.B.	CABLE TOOLS
2445'		21. 1200, D.	TOTA 1.01, AD & 1		How M	ANY*		BILLED BY	0-2445	
24. PRODUCING INTE	RVAL(S), O	F THIS COX	(PLETION-TOP,	BOTTOM, N			•		U Z TTJ	25. WAS DIRECTIONAL SURVEY MADE
	None									No
								<u> 4</u> 62.5.111		
26. TYPE ELECTRIC									2	7. WAS WELL CORED
<u>Dual-Indu</u> 28.	ction.	-Later					le set in well)	<u> </u>		No
CASING SIZE	WEIGH	T, LB./FT.	DEPTH SET			LE SIZE		CEMENTING	RECORD	AMOUNT PULLED
8 5/8"	24.0	00	150'	K.B.	12	311	120	sks		None
29.		TIN	ER RECORD				30.		TUBING RECOR	
SIZE	TOP (MI			SACKS CEM	ENT*	SCREEN ()		ze i	DEPTH SET (MD)	
	None								None	
31. PERFORATION RE	CORD (Inter	rval, size a	nd number)			32.	ACID, SH	OT, FRAC	TURE, CEMENT	SQUEEZE, ETC.
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				349 46				_		
33.*						UCTION				
DATE FIRST PRODUCT	FION	PRODUCTI	ON METHOD (FI	owing, gas	lift, pr	ımping—size	and type of	pump)	shut-i	
NONE	HOURS T	ESTED	CHOKE SIZE	PROD'N.	FOR	OIL-BBL.	0.48	-MCF.	WATER—BBL.	& A
None			CHORD SIDS	TEST PE			None	-MCs.	1	GAS-GIZ MAILO
FLOW. TUBING PRESS.	CASING E	RESSURE	CALCULATED	OILBB	IL.	GAS-	-MCF.	WATER-	BBL. 0	OIL GRAVITY-API (CORB.)
			24-HOUR BATE							
34. DISPOSITION OF	gas (Sold, u	sed for fue	l, vented, etc.)						TEST WITNESSI	ED BY
35. LIST OF ATTACE			d O1	- 2 -	D					
Drillin 36. I hereby certify	g nist	oregoing a	and Geol	ogic	Kepc	It and com	rent sa datam	nined from	all available rec	ords
	1/1/		7 //							
SIGNED	I. W.	WG	ngu	Z titi	LE CC	nsulti	ing Geo	Logis	DATE	Nov. 8, 1978
		//-	-4-0			······································				-

DRILLING HISTORY

AND

GEOLOGIC REPORT

ON

WILLARD PEASE OIL & GAS CO.

BAR CREEK UNIT #5 WELL

GRAND COUNTY, UTAH

Ву

W. Don Quigley Consulting Geologist Salt Lake City, Utah

November 7, 1978

DRILLING HISTORY AND GEOLOGIC REPORT

ON

WILLARD PEASE OIL & GAS CO.

BAR CREEK #5 WELL

GRAND COUNTY, UTAH

Operator: Willard Pease Oil & Gas Co.

570 Kennecott Bldg., Salt Lake City, Utah 84133

Contractor: Willard Pease Drlg. Co.

P.O. Box 548, Grand Junction, Colo., 81501

Location: NE NE Sec. 30, T 17S, R 26E, S.L.M., Grand County,

Utah (660' fr. N-line and 660' fr. E-line)

Elevations: 5003 grd.; 5013' K.B.

Spudded-in: September 22, 1978

Finished Drlg: September 25, 1978

Total Depth: 2445'

Surface Casing: 8 5/8", 24.00#, K-55, R-3 landed at 150' K.B.

and cemented w/120 sks of cement and 3% CaCl and

returns to surface.

Bottom Formation: Entrada

Production Zone: None

Plugged and Abandoned: September 25, 1978

Drilling History

Sept. 20-21: Moving in W. Pease Drlg. Co. Rig No. 1 and rigging up.

- Sept. 22: Drilled mouse hole and rat hole. Drilled surface hole (12½") to 162' in 4 hours with Bit #1 (Hughes-retipped). Ran 4 jts of 8 5/8", 24.00#, R-3, K-55 casing and landed at 150' K.B. Cemented casing with 120 sks reg. cement w/3% CaCl. Had returns to surface. Waited on cement to set. Nippled-up.
- Sept. 23: Drilled 162' to 1976' (1814'). Finished nipplingup. Began drilling below surface casing at 2:30
 A.M. with 7 7/8" bit and using air for circulation.
 Drilling at rate of 120 ft/hr. in Mancos shale.
 Had small flare of gas (2' flare) at 1590' which
 was in the Dakota silt zone. Est. top of Dakota
 at 1700' but no samples were caught—so hard to
 tell. Encountered water at 1750' and had to convert to mist-drilling with air-soap-water. Had
 red shale at 1875' so must be in Morrison.
- Sept. 24: Drilled 1976' to 2413' (437'). Based on drilling break and a brown fine grained sandstone at 2300', decided that this was the Entrada. Drilled to 2350' and logged hole. Ran Dual-Induction-Laterolog and Density-Gamma-CNL logs. Finished logging at 3 P.M. Based on logs, found that the Entrada had not been reached so had to go back in hole and drill deeper. Sent logs to Anschutz in Denver by Frontier Airlines. Logs indicated Entrada would be at 2390'. Encountered Entrada at 2385'.
- Sept. 25: Drilled 2413' to 2445' (32'). Had no shows in top of Entrada so drilled to 2445' and came out of hole in preparation to plug and abandon hole.

 Bit #2 (Reed-FP54J) made 2283' (162' to 2445') in 32 3/4 hrs. Drilled at avg. rate of 70 ft/hr.

 Laid down drill collars and went back to bottom with drill pipe. Placed cement plugs as follows:

Plug #1 - 2445' to 2300' (50 sks) across top of Entrada formation.
Plug #2 - 2175' to 2100' (25 sks) across top of Salt Wash section.

Plug #3 - 1850' to 1650' (60 sks) across
Cedar Mountain and Dakota formations.
Plug #4 - 175' to 100' (25 sks) across
bottom of surface casing.
Plug #5 - 10 sks of cement with well marker
in top of surface casing.

Began rigging down.

All Papers, cans, and trash are to be picked up. All material removed from location. Rat hole and mouse hole are to be filled-in. Reserve pit is to be covered and levelled as soon as possible and the location is to be recontoured and smoothed out. The roads are to be levelled and returned to normal. The location will be reseeded at a later date.

GEOLOGIC REPORT
ON
BAR CREEK #5 WELL

Introduction

The Bar Creek Unit #5 well was located approximately ½ mile southeast of the first Bar Creek Unit #1 well which was completed for a good natural gas well in a sand in the Brushy Basin section of the Morrison formation. The location of the well was chosen so as to be structurally higher than the #1 well and to be near the axis of the Stateline structure. This was probably a mistake because the axis and east flank of this structure have been drilled before without success. The natural gas appears to have been generated in areas to the north and accumulated in sand lenses north of Stateline structure. Likewise, well positions close to the outcrop to the south have been unsuccessful and the sand lenses are flooded with fairly fresh water.

The subject well was drilled within a three-day period using air for circulation. The actual drilling time from bottom of surface casing to total depth, 2445', was only 33 hours. The total depth was about 60 feet below the top of the Entrada formation.

No samples of the cuttings were taken on this hole due to poor communications with the contracting company; thus information on shows of hydrocarbons is minimal. There was a small flare of gas, 5 ft. in length, on a connection at 1383'. According to the E-logs, this show of gas probably came from a silty sand in the Mancos at 1370' to 1385'. Additional small flares of gas, 5 to 6 ft. in length for 2 seconds, were noted on connections at 1602', 1633', 1664', 1695', and 1726'. There was probably some additional gas (very small amount) in the silt section, 'Dakota Silt', at 1610' to 1675'. The Dakota sand at 1710' to 1735' was wet and required conversion to mist-drilling with air-soap-water. Small flares of gas, 5 to 6 ft. long for 2 to 3 seconds, were noted on some connections down to about 2050'; but there were no increases or additional gas zones.

The amount of gas obtained in the subject well was much too small to warrant setting casing and completing as a gas well. The well was, therefore, plugged and abandoned on Sept. 25, 1978.

General Geology

The subject well was located on or near the axis of the Stateline Anticline which is a symmetrical anticline trending nearly eastwest and parallel to the Bar-X Anticline to the north. The anticline has several transverse faults, trending northeastward, with displacements of 50 to 150 feet and downthrown on the west side.

The natural gas reservoirs in the area are found in lenticular sands in the Dakota, Cedar Mountain and Morrison formations. These sand lenses are quite irregular and variable and seem to have limited continuity. In general, they trend northeastward in the area, but tend to have very irregular elongated shapes. They were deposited by aggrading streams and represent stream

channels, bar sands, and flood or alluvial sands. Interfingering and overlaps are common. Communication between the lenses tend to be minimal. Because of their erratic nature, one well does not prove or condemn a very large area. Wells on adjacent 40-acre tracts can be quite different.

The subject well was about 150' higher structurally than the Bar Creek Unit #1 well, located about ½ mile to the northwest of the subject well. Part of this structural difference is due to an intervening fault, trending northeastward, between the two wells. The subject well is on the upthrown side of the fault.

The subject well encountered a normal sequence of sediments with normal thicknesses. The development of sand lenses in the potentially productive formations was less than in the Bar Ck Unit #1 well, but was fairly normal. The Dakota formation contained only one fairly thick sand lens in the subject well compared to three separate sand lenses in the Bar Ck #1 well. This sand was about 27 feet thick and, according to the E-logs, has about 15% porosity. However, based on the log data, there is an indicated 60% water saturation. There is no cross-over shown on the logs and very little, if any, gas was evident from this sand during the drilling operations. It was, therefore, concluded that the evidence of gas was too weak to justify setting casing and completing the well. The Dakota formation was about 75 feet thick in the subject well.

The top of the Cedar Mountain formation was encountered at 1785', according to the E-logs. A well developed sand at 1810' to 1842' (with a small 3 ft. thick shale break) had good porosity, 13% to 21%; but calculations, based on the E-log data, indicate about 100% water saturation. There is a slight crossover, 3 ft., in the lower portion of the sand. The Cedar Mt. formation was about 100 ft. thick in this well.

The Morrison formation was topped at 1882' and had only one well developed sand lens at the top of the Salt Wash section. This sand at 2136' to 2150' did not give up any gas when drilled and the E-logs indicated that the sand contained water. The logs indicated a porosity of about 16% and a water saturation of 100%. The Morrison was about 422 feet thick in this well.

The Curtis-Summerville section was encountered at 2304'. A sand at 2306' to 2315' was light brown in color, medium-grained, rounded grains and appeared similar to the Entrada sand. However, this was a Curtis sand and after logging, the well had to be deepened to penetrate the top sixty feet of the Entrada formation. The Curtis sand did not have any hydrocarbon shows and the E-logs indicated a porosity of 9%, and a water saturation of 100%. The Curtis-Summerville was about 80 feet thick in this well.

The top of the Entrada formation was encountered at 2385', according to the samples, and contained light tan to clear, medium-grained, rounded sandstone. There were no shows in the samples and the cuttings appeared to be wet. This portion of the hole, 2350' to 2445', was drilled with mud.

The formations with their tops, thicknesses, and datum points, which were encountered in the subject well, as determined from the electric logs, are as follows:

<u>Formation</u>	Depth to Top	<u>Thickness</u>	<u>Datum</u>
Mancos	Surface	1710'	5013' K.B.
Dakota	1710'	75'	3303
Cedar Mountain	1785	971	3228
Morrison (Brushy B.)	1882'	2541	3131'
(Salt Wash)	2136'	168	2877'
Curtis-Summerville	2304'	81'	2709 '
Entrada	2385'		2628'
Total Depth	24451		

As noted previously, comparison of the above data with similar data on the Bar Creek #1 well indicates that the subject well was about 150 feet higher structurally.

Conclusion

The Bar Creek Unit \$5 well was designed to test the potential gas producing reservoirs in lenticular sands in the Dakota, Cedar Mountain, and Morrison formations on top, (or near the top), of the Stateline structure. The results of the well were

very disappointing. Several of the potential sands were present, but did not contain any appreciable accumulation of natural gas. The sands appeared to be flooded due to their shallow depth and proximity to the outcrops farther to the south.

Even though the well was approximately 150 feet higher structurally than the Bar Ck #1 well, which had good amounts of gas in the Dakota and Morrison formations, the accumulation of natural gas in the potential reservoir sands was absent. Thus it is apparent that some mechanism trapped the gas farther down the north flank of the structure.

Faulting has considerable influence on the characteristics of the reservoir sands. These sands are contaminated with clay minerals, gouge, and water when near or on fault zones, thus their favorable reservoir characteristics for natural gas accumulations are destroyed in these areas.

Based on the results of the subject Bar Ck Unit #5 well, and the results of the subsequent Bar Ck Unit #4 well, it is recommended that future wells on the Bar Ck Unit be located on the north flank of the Stateline structure and on the south flank of the Bar-X structure.

W. Don Jungley
W. Don Quigley
Consulting Geologist

AAPG Cert. #1296 APGS Cert. #3038

DEPARTMENT OF THE INTERIOR (Other Instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

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OLOLOGICAL SOI	· · · · · · · · · · · · · · · · · · ·	1 0-10723
SUNDRY NOTICES AND REPORT (Do not use this form for proposals to drill or to deeper use "APPLICATION FOR PERMIT—"	on or plug back to a different reservoir	6. IF INDIAN, ALLOTTEB OR TRIBE NAME
	100	7. UNIT AGREEMENT NAME
WE'L GAS OTHER Dry Hole	RECEIVE 1810	Bar Creek
2. NAME OF OPERATOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8. FARM OR LEASE NAME
Willard Pease Oil & Gas Co.	RELATION LINE	Federal-Anschutz
3. ADDRESS OF OPERATOR	DICKS.	9. WELL NO.
570 Kennecott Bldg., Salt Lake	P (.1) V 19020KI OGI 1324'/	Bar Ck Unit #5
4. LOCATION OF WELL (Report location clearly and in accordance See also space 17 below.) At surface NE. NE. Sec. 30, T 17S,	. 61 18	10. FIELD AND FOOL, OR WILDCAT Stateline
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
660' fr. N-line and 660	ir. E-line	NE. NE. Sec. 30-17S-26 S.L.M.
14. PERMIT NO. 15. ELEVATIONS (Show	whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	; 5013' K.B.	Grand Utah
6. Check Appropriate Box To In	ndicate Nature of Notice, Report, or	Other Data
NOTICE OF INTENTION TO:	SUBSEC	QUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
PRACTURE TREAT MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT* X
REPAIR WELL CHANGE PLANS	(Other)	
(Other)	(Nore: Report result	s of multiple completion on Well pletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Subject well was drilled to a depth of 2445' which was 60 feet below top of the Entrada formation and encountered no productive sands. The well was therefore plugged and abandoned as follows:

Plug #1: 2445' to 2300' (145') 50 sks cement - across top of Entrada

Plug #2: 2175' to 2100' (75') 25 sks cement - across top of Salt Wash
Plug #3: 1850' to 1650' (200') 60 sks cement - across Cedar Mt. and Dakota

Plug #4: 175' to 100' (75') 25 sks cement - across bottom of casing

Plug #5: 5' to 0' (5') 10 sks cement - in top of casing w/marker

Location has been cleaned, pits folded-in, recontoured, and seeded. Road has been erased (?).

SIGNED W. Now Guylly TITLE Consulting Geologist I	
	ATE Nov. 8, 1978
(This space for Federal or State office pse) APPROVED BY	ATB